

RESCUE/SIGNAL DEVICES

25 YEAR
RE-REVIEW

A. URT-21 -- Installed in parachute

1. Set to automatically be turned on at main parachute deployment, i.e., approx 16,000 feet above sea level.
2. Beacon bracket designed to allow pilot to remove the beacon from the parachute harness upon reaching the ground/water, for manual operation.
3. Transmitter has a peak power output greater than 200 milliwatts and a life of 24 hours or more at 0°C.
4. Single Frequency (243 mc) Transmitter. Ground-to-air range to an aircraft at 10,000 feet exceeds 80 nautical miles on tone and 50 nautical miles on the automatic direction finder (ADF).

B. ACR RT-10 (UHF - 250 mc) Transceiver

1. Carried in leg pocket of pilot's pressure suit as an optional item.
2. Battery life of 20 hours at 20°C and 4 hours at 0°C at a duty cycle of $\frac{1}{2}$ hr Transmit and $\frac{1}{2}$ hour receiver.
3. Transmitter power output 200 milliwatts minimum and a beacon mode of transmission which transmits a swept tone modulated signal (300-1000 cps 2-3 times/second) for alerting and direction finding by rescue aircraft.
4. Ground-to-air range to an aircraft at 10,000 feet altitude exceeds 80 nautical miles on tone and 40 nautical miles on voice and ADF.

C. ARS-100 (UHF/VHF Transceiver 121.5 mc/243 mc)

1. Carried in seat kit.
2. Operating characteristics essentially the same as the RT-10 above.

D. FLARES

1. Various flares/smoke signals are carried in the seat kit and/or ASKIT (auxilliary survival kit) which may be carried in the leg pocket of the pilots pressure suit.

E. SURVIVAL KIT CONTENTS -- Attached

CYGNUS SURVIVAL KIT
SOUTH MISSION
SUBJECT NUMBER _____

KIT S/N _____. DATE INSP _____ DATE DUE _____ (WILL BE EARLIEST
DATE OF RADIO, RAFT OR PRIOR TO MISSION) AS PER DIRECTION OF HEADQUARTERS, ALL
KITS WILL CONTAIN THE FOLLOWING SURVIVAL ITEMS IN INSTANCES WHERE THE FLIGHT
PATH CROSSES MULTIPLE TERRAIN AND OR CLIMATIC REGIONS. ALL KITS PACKED FOR
OVERWATER FLIGHTS.

- A. CUSHION, SEATKIT, (ITEMS PACKED IN CUSHION) 1 EA
1. BAG, SLEEPING, MUMMY 1 EA
 2. DESERT SOLAR STILL 1 EA
 3. SOCKS, WOOL AND NYLON 2 PR
 4. POWDER, FOOT 1 CN
 5. VIOFORM HYDROCORTISONE CREAM 2 TU
 6. LOWERING DEVICE 1 EA
 7. POWDER, INSECTICIDE, DDT 1 CN
 8. MEDICAL KIT 1 EA

- B. RAFT, 1-MAN, W/SPRAY SHIELD (ATTACHED) YELLOW OR GREEN S/N _____ 1 EA

MFG DATE _____ DATE INSP _____ DATE DUE _____

- C. ITEMS TO BE PACKED IN ORDER OF PRIORITY:
1. REPAIR KIT, PACKAGE OF 2 CLAMPS, FSN 4220-693-1471 1 EA
 2. KIT, DESALTER, FSN 4220-215-5031 1 EA
 3. COMPASS, SWISS OR LEUPOLD BRAND 1 EA
 4. KNIFE, POCKET, SWISS OR CASE BRAND 1 EA
 5. RADIO, ASR-100, S/N _____ DATE INSP _____ DATE DUE _____ 1 EA
 6. COVERALL, FLYING, SG, SIZE _____ 1 EA
 7. CASE, MATCH, PLASTIC, W/FLINT AND MATCHES, FSN 8465-265-4925 1 EA
 8. INSECT REPELLANT, 6-12 BRAND, 2 OR 2.5 OZ. PLASTIC BOTTLE 1 EA
 9. HAT, W/MOSQUITO NET, O.D. COLOR, FSN 8415-261-6630 1 EA
 10. SURVIVAL WEAPON, W/50 ROUNDS AMMO, S/N _____ 1 EA
 11. ALUMINUM FOIL, HEAVY DUTY, 2 SQ FT. 1 EA
 12. STONE, SHARPENING, CARBORUNDUM, IN LEATHER CASE, 7/8" X 3" 1 EA
 13. GUN, FLARE, W/7 FLARES, (PEN) LIFESAVER 1 EA
 14. MORPHINE, SYRETTE 1 EA
 15. SPORTSMANS MEDICAL MANUAL (HQS FURNISHED) 1 EA
 16. SOCKS, THERMAL STRETCH, SIZE 12-13 1 PR
 17. KNIFE, HUNTING, 5" OR 7 1/2" BLADE, BUCK BRAND 1 EA
 18. FLASHLIGHT, (CHROME PEN TYPE) W/BATTERIES, SIZE AA 1 EA
 19. RATIONS, (HQS FURNISHED) 1 EA
 20. SHOE POLISH, BLACK, (ESQUIRE BRAND) 1 EA
 21. BAG, WATER, PLASTIC, 5 QTS, FSN 8465-634-4499 2 EA
 22. BAR MOSQUITO 1 EA
 23. MIRROR, SIGNALING 1 EA
 24. GILL NET 1 EA
 25. BATTERIES, ALKALINE, SIZE AA (SPARES FOR ASR 100 RADIO) 12 EA
 26. PADDLE, PLYWOOD, FSN 4220,485-3018 2 EA
 27. MONOCULAR, 8 X 11 MM 1 EA
 28. SIGNAL, DISTRESS, MK-13 LT. NR. _____ 1 EA

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- D. PARACHUTE, S/N _____ DATE INSP _____ DATE DUE _____ 1 EA
 1. LIFE PRESERVER, UNDERARM, PNEUMATIC, LPU-3/P S/N _____ 1 PR
 2. RADIO, URT-21, (PACKED AUTOMATIC OR PILOT OPTION) _____ 1 EA
 S/N _____ DATE INSP _____ DATE DUE _____
- E. SUIT AND PERSONAL ITEMS
 1. COMPASS, WRIST, (WORN ON PERSON) _____ 1 EA
 2. LIGHT MARKER DISTRESS, ACR-SD-5/E S/N _____ S/N _____ (INSIDE OUTER GARMENT RIGHT LEG, INSIDE THIGH) FSN 6230-067-5207 1 EA
 3. WATCH, ACCUTRON, S/N _____ 1 EA
 4. PENCIL, LEAD, MECHANICAL, SCRIPTO BRAND 4 1/2" 2 EA
 5. PENCIL, CHINA MARKING, MECHANICAL 1 EA
 6. SURVIVAL PACKET, AS DIRECTED 1 EA
 7. AUXILIARY SURVIVAL KIT, (OUTER GARMENT LOWER RIGHT LEG POCKET) 1 EA
 8. WATCH, WRIST, FSN 6645-066-4279, SN _____ 1 EA
 9. BOOTS, COMBAT, TROPICAL 1 PR
 10. FLASHLIGHT, CHROME, (WELCH ALLYN 760) 1 EA
 11. RADIO, ACR, RT-10, SN _____, INSP DUE _____ 1 EA
- F. AUXILIARY SURVIVAL KIT LISTING
 1. A.P.C. TABS, (10 EA) 1 BL
 2. ADHESIVE PLASTER 1 RL
 3. BAG, WATER, PLASTIC 1 EA
 4. BAND AIDS 6 EA
 5. BENZALKONIUM CHLORIDE, TINCTURE, (2 CC) 1 BL
 6. CANDLE 1 EA
 7. COMPASS, BUTTON 1 EA
 8. CHAMOIS 1 EA
 9. COTTON, ABSORBENT, 92 GRAMS, W/WAXED PAPER FIRE STARTER 1 PK
 10. D. METHAMPHETAMINE HYDROCHLORIDE, TABS, (6 EA) 1 BL
 11. FISHING KITS, (PLASTIC CONTAINER, 2 WET FLIES WITH SNELL, 15 FISH HOOKS, NICKLE DEMON WITH DOUBLE HOOK.) 1 EA
 12. FISHING LINE, NYLON W/15 YDS MONOFILIMENT 1 EA
 13. FLARES, PENGUIN 4 EA
 14. GUN, FLARE, PENGUIN 1 EA
 15. FLINT, (IN FISHING KIT) 1 EA
 16. GAUZE 1 EA
 17. HACKSAW AND KNIFE BLADE 1 EA
 18. KNIFE, POCKET, CASE 1 EA
 19. LIPSTICK, ANTICAP AND SUNBURN PROTECTION 1 EA
 20. LIGHT, KEY TYPE 1 EA
 21. MAGNIFYING GLASS 1 EA
 22. MATCHES, SURVIVAL, APPROX. 30 EA 1 BX
 23. MATCHES, LARGE WATERPROOF, 6 EA 1 PK
 24. MIRROR, SIGNALING W/CORD 1 EA
 25. MORPHINE, SYRETTE 1 EA
 26. NEEDLE, LARGE EYE, (IN FISHING KIT) 2 EA

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| 27. OXYTETRACYCLINE, TABS, 16 EA | 1 BL |
| 28. PINS, SAFETY | 2 EA |
| 29. PLIERS | 1 EA |
| 30. PURIFICATION TABLETS, WATER, IODINE, 50 EA | 1 BL |
| 31. RAZOR BLADE, SINGLE EDGE | 2 EA |
| 32. REPELLANT, BUG AND SUN, TUBE | 1 EA |
| 33. SALT TABLETS, 10 EA | 1 BL |
| 34. SEWING KIT, 2 NEEDLES AND THREAD | 1 PKG |
| 35. SINKERS, FISHING, ASSORTMENT | 1 PKG |
| 36. WIRE, SNARE, 20 FT | 1 RL |
| 37. SPONGE, CELLULOSE | 1 EA |
| 38. SOAP, BAR, 3/8 OZ | 1 EA |
| 39. SAW, WIRE, THUMB TYPE | 1 EA |
| 40. BAG, WATER, PROPHALACTIC | 1 EA |
| 41. SUNGLASSES | 1 PR |
| 42. SANDPAPER, WET OR DRY, 400 GRIT, $\frac{1}{2}$ SHEET | 1 EA |
| 43. CHLOROQUINE PRIMAQUINE, TABLETS | 4 EA |

MEDICAL KIT LISTING

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| 1. <u>NUPERCALINE OINTMENT</u> - ANESTHETIC FOR BURNS, MINOR WOUNDS, BITES, ETC. | 1 TU |
| 2. <u>DRAMAMINE</u> - TAKE 1 TABLET 4 TIMES A DAY FOR NAUSEA, VOMITING AND MOTION SICKNESS. | 9 TAB |
| 3. <u>DEXEDRINE</u> - FOR FATIGUE, TO INCREASE ALERTNESS, TABLETS LAST 4 HOURS, CAPSULE LASTS 12 HOURS. | 18 TAB |
| 4. <u>DILAUDID</u> - FOR SEVERE PAIN, TAKE 1 TABLET EVERY 3 TO 6 HOURS AS NEEDED. | 20 TAB |
| 5. <u>CODEINE</u> - FOR MODERATE PAIN, TAKE 1 TABLET EVERY 3 TO 6 HOURS AS NEEDED. | 15 TAB |
| 6. <u>LOMOTIL</u> - FOR DIARRHEA, TAKE 2 TABLETS 3 to 4 TIMES A DAY | 80 TAB |
| 7. <u>CHLOROQUINE - PRIMAQUINE</u> - FOR PREVENTION OF MALARIA, TAKE 1 TABLET WEEKLY AFTER A MEAL. | 4 TAB |
| 8. <u>ACTIFED</u> - FOR RELIEF OF COLD SYMPTOMS AND SINUSITIS, TAKE 1 TABLET 3 TIMES A DAY. | 20 TAB |
| 9. <u>TETRACYCLINE</u> - FOR TREATMENT OF INFECTION, TAKE 1 TABLET EVERY 6 HOURS ON AN EMPTY STOMACH. | 18 TAB |
| 10. <u>OTRIVIN</u> - NASAL SPRAY FOR CONGESTION | 1 BTL |
| 11. <u>CORTISFORIN OINTMENT</u> - FOR EYE INFECTION AND TROPICAL USE, MINOR BURNS, WOUNDS, RACHES, ETC., APPLY 2 TO 4 TIMES A DAY | 2 TU |
| 12. <u>A-FIL OINTMENT</u> - FOR PREVENTION OF SUNBURN. | 1 TU |
| 13. <u>NEMBUTAL SODIUM, 100 MG</u> - RAPID ACTING SLEEPING PILL. TAKE 1 CAPSULE FOR SLEEP, MAY REPEAT IN 1 HOUR. | 6 EA |
| 14. <u>MORPHINE SYRETTE, $\frac{1}{2}$ GR</u> - INJECT 1 SYRETTE SUBCUTANEOUSLY AS NEEDED, FOR SEVERE PAIN. | 1 EA |

FLOTATION/LIFE RAFT

A. UNDERARM LIFE PRESERVERS

1. LPU-3P preservers attached to the parachute harness and located under both arms are worn on all overwater flights.
2. Activation requires pulling a lanyard on each packet to inflate both sides of the LPU. This would be done during parachute descent (i.e. below 15,000 ft.)

B. UNDERSUIT FLOTATION GARMENT

1. The undersuit flotation garments were recently modified so the actuating lanyard is centrally located on the front of the coverall and accessible with either hand.
2. This flotation garment is used as a backup for the LPU's and generally would not be inflated until desired in the water (after loosening parachute chest strap, getting out of parachute, or boarding the life raft).

C. LIFE RAFT

1. The new open-ended life raft is carried in the seat kit on all overwater flights.
2. It is automatically inflated when the seat kit is released prior to water entry.
3. The sequence of life raft boarding is shown in the attached photographs numbers 1 through 5. Also the use of the flotation devices is seen in these photographs.









